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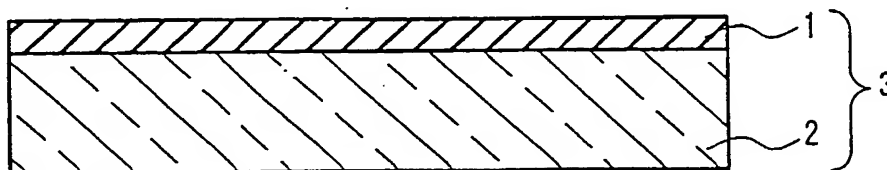
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特願2002-68185 2002年3月13日 (13.03.2002) JP
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- (84) 指定国 (広域): ARIPO 特許 (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), ユーラシア特許 (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), ヨーロッパ特許 (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI 特許 (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- 添付公開書類:  
— 国際調査報告書

2文字コード及び他の略語については、定期発行される各PCTガゼットの巻頭に掲載されている「コードと略語のガイダンスノート」を参照。

(54) Title: ORGANIC LUMINESCENCE DEVICE AND ITS PRODUCTION METHOD

(54) 発明の名称: 有機発光素子及びその製造方法



(57) Abstract: An organic luminescence device comprises a substrate with a gas-barrier film formed thereon and containing an amorphous oxide and at least two kinds of oxides selected from the group consisting of boron oxides, phosphorous oxides, sodium oxides, potassium oxides, lead oxides, titanium oxides, magnesium oxides, and barium oxides. The two kinds of oxides are a combination of an oxide of an element having a large atomic radius and an oxides of an element having a small atomic radius. The substrate is made of glass or plastic. As a result, the organic luminescence device comprising a substrate excellent in gas-barrier capability to prevent entrance of oxygen and water vapor from outside is provided.

(57) 要約: 非晶質酸化物と、ホウ素酸化物、リン酸化物、ナトリウム酸化物、カリウム酸化物、鉛酸化物、チタン酸化物、マグネシウム酸化物及びバリウム酸化物からなる群から選択された少なくとも2種類の酸化物とを含むガスバリア膜を基板に形成したガスバリア膜付き基板を用いた有機発光素子であって、前記選択された少なくとも2種類の酸化物が、原子半径が大きい元素の酸化物と原子半径が小さい元素の酸化物とを組み合わせたものであり、前記基板がガラス又はプラスチックから形成されている有機発光素子とすることにより、外部からの酸素や水蒸気等の侵入を防止することができるガスバリア性に優れた基板を用いた有機発光素子を提供する。

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP02/03137

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> H05B33/02, H05B33/04, H05B33/14

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> H05B33/02, H05B33/04, H05B33/14, B32B1/00-35/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Jitsuyo Shinan Toroku Koho	1996-2002
Kokai Jitsuyo Shinan Koho	1971-2002	Toroku Jitsuyo Shinan Koho	1994-2002

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	JP 9-129376 A (Idemitsu Kosan Co., Ltd.), 16 May, 1997 (16.05.97), Claims; page 3, column 3, line 11 to page 4, column 5, line 30 (Family: none)	1-8 9-13
Y A	JP 8-236271 A (Mitsubishi Chemical Corp.), 13 September, 1996 (13.09.96), Page 3, column 4, lines 15 to 25 (Family: none)	1-8 9-13
Y A	JP 60-219042 A (Sekisui Chemical Co., Ltd.), 01 November, 1985 (01.11.85), Full text (Family: none)	1-8 9-13

☒ Further documents are listed in the continuation of Box C.
 ☐ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search  
21 May, 2002 (21.05.02)Date of mailing of the international search report  
04 June, 2002 (04.06.02)Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP02/03137

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	JP 4-32148 B (Sekisui Chemical Co., Ltd.), 28 May, 1992 (28.05.92), Full text (Family: none)	1-8 9-13
E, A	JP 2002-134271 A (Dainippon Printing Co., Ltd.), 10 May, 2002 (10.05.02), (Family: none)	1-8
A	JP 6-31850 A (Mitsui Toatsu Chemicals, Inc.), 08 February, 1994 (08.02.94), (Family: none)	1-8
A	JP 11-121164 A (Fuji Electric Co., Ltd.), 30 April, 1999 (30.04.99), & GB 2330454 A & US 6309486 B1	1-8